

April 15, 1960
Charlottesville -

8:20
Mileage - 3248

No. 4-1660-1
Charleston

Date April 16, 1960
Co. & State McMinn Co., Tenn.

Loc. about 2 1/2 miles n. of Charleston, U. S. Hwy. 11
1-2 ft. deep ditch, with algae -
(abundant submerged algae)

Water clear, probably polluted (faint) Flow moderately slow

Width _____ Depth _____ pH _____ Temp. _____

Bottom pebbly and mud

Vegetation algae

Shore cultivated land, rebar
lonicera

Air Temp. _____

Weather _____ Time 7:13

Capture _____

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>C. striatus</u>					1		

72-5 Cleveland
7/11/9

No. 4-1660-2a, b, c

Date April 10, 1960

Charleston

Co. & State Bradley Co., Tenn.

Loc. 3 miles S. of Charleston, Hwy. 2, 11
trib. to Mouth Ck., to Hiwassee

4-10 ft. wide

near B. I. Ford

Water clear

Flow

Width

Depth + 1 1/2

pH

Temp.

Bottom most clay, gravel - few stones

Vegetation

Shore

open farm lands

Air Temp.

Weather

Time

Capture

Det.

Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>O. erichsonianus</u>	<u>1</u>			<u>6</u>	<u>2</u>		
<u>C. l. longirostris</u>	<u>1</u>	<u>4</u>	<u>6</u>	<u>3</u>	<u>4</u>		
<u>C. striatus</u>				<u>1</u>			

No. 4-1660-3

Date Apr. 16, 1960

Charleston

Co. & State Bradley Co., Tenn.

Loc. 3 miles s. of Charleston, U.S. Hy. 11

Cress & Gint-filled stream

near Bell Mount trib. to Mouth Creek, to Hiwassee

Water clear, very swift Flow

Width Depth pH Temp.

Bottom clay & gravel

Vegetation

Shore open farm lands

 Air Temp.

Weather Time

Capture

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>C. l. longirostris</u>	<u>3</u>	<u>4</u>	<u>8</u>	<u>6</u>	<u>12</u>		

88.2
87

No. 4-1660-4a, 4b, 4c.

Date April 16, 1960

Guild

Co. & State Marion Co., Tenn.

Loc. 1.2 miles s. of U. S. Hy. 72, on St. rt. 134
near crossing of river on hy.

Water trib. to Tenn. - clear, swift Flow rapid

Width 25 ft. Depth + 3 pH Temp.

Bottom rocky

Vegetation no veg. in water

Shore pine maple cypress willow

Air Temp.

Weather clear

Time 12

Capture

Det.

Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<i>O. rusticus</i> forceps	9					2	
<i>O. erichsonianus</i>	1						
<i>Cambarus bartonii</i> subsp.			1	1			

803.2 S. Pittsburgh

No. 4-1660-5

Date Apr. 16, 1960

Scottsboro

Co. & State Jackson Co., Ala.

Loc. just n. of city limits of Scottsboro, U. S. Hy. 72.

Minnow farm. ponds.

series of excavations.

Water

Flow

Width

Depth

pH

Temp.

Bottom

Vegetation

Lupha, algae

Shore

Air Temp.

Weather

Time

Capture

Det.

Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>P. blandingii acutus</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>2</u>		

No. 4-1660-6a, 6b

Date Apr. 16, 1960

Scottsboro

Co. & State Jackson Co., Ala.

Loc. Creek - just n. of city limits of Scottsboro,
U. S. Hy. 72

Water _____ Flow _____

Width _____ Depth _____ pH _____ Temp. _____

Bottom sand & mud - no rocks - debris

Vegetation _____ burrows everywhere

Shore Willows - hardwood swamp

Air Temp. _____

Weather _____ Time _____

Capture _____

Det. _____

Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>P. b. acutus</u>		1	2	2	4		
<u>C. striatus</u>		1	3	6	10		

mm
11/10

76.5
Arab 79.0

No. 4-1660-7a, b
Arab

Date Apr. 16, 1960

Co. & State Marshall Co., Ala.

Loc. 2 1/2 mi. e. of Arab, St. Hwy. 69
trib. to Brown's Creek Tennessee R.

Water clear Flow moderate

Width 10-15 ft. Depth up to 2 ft. pH Temp.

Bottom rocky with sponge, algae, bryozoa

Vegetation none

Shore willow, pine, tulip, poplar

Air Temp.

Weather Sunny, warm

Time 3:45

Capture

Det.

Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>C. striatus</u>	<u>2</u>	<u>2</u>	<u>6</u>				
<u>O. laticinctus</u>	<u>1</u>						

2 bottles

83.6

22.6

No. 4-1660 - Pa, b

Date Apr. 16, 1960

Arab

Co. & State Cullman Co., Ala.

Loc. 6.6 miles s.w. of Arab, St. Hy. 69
(Black Warrior drainage)

Water Flow mod. to sluggish

Width 2-10 ft. Depth 3+ pH Temp.

Bottom rocky - bed rock in part

Vegetation none in water

Shore pine, liriiodendron

Air Temp.

Weather Time

Capture

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<i>C. obesus</i>	1	1	6	1			
<i>C. striatus</i>			3	1	1		

98.8

79
171.8

Cullman - 909.1

904.5
898.8
5.7

No. 4-1660-9

Cullman

Date Apr. 16, 1960

Co. & State Cullman Co., Ala.

Loc. Little River, 5.7 miles n.e. of Cullman,

St. Hy. 69

(19.8 mi. s. w. of Arab)

Water clear

Flow mod. to rapid

Width 20-25 Depth to 2 ft.

pH Temp.

Bottom rocky + sandy

Vegetation

Shore

in ravine, with usual ravine trees

Air Temp.

Weather

Time 5:30

Capture

Det.

Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>C. striatus</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>1</u>			

No. 4-1760-1a, 1b
Cullman

Date Apr. 17, 1960
 Co. & State Cullman Co., Ala.

Loc. 6.1 mi. N. of Cullman, U.S. Hy. 278
Trib to Ryan Creek.

Water clear Flow moderate at ripples

Width 10-20 ft. Depth up to 2 pH Temp.

Bottom rocky

Vegetation none in water - algae

Shore pinus - Liriodendron

Air Temp.

Weather rainy Time 9:15 A.M.

Capture

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
C. obsoletus							
<u>C. obsoletus</u>			2				
<u>C. striatus</u>			3	1	1		

21.1
99
12

No. 4-1760-2
Cullman

Date Apr. 17, 1960
Co. & State Cullman Co., Ala.

Loc. 12.1 mi. W. of Cullman, U. S. Hy. 278
Crooked Creek

Water clear Flow mod. at riffles
Width ²⁰ 40 ft. Depth +3 pH Temp.

Bottom sand & rock at riffles

Vegetation none

Shore deep valley stream like preceding no.

Air Temp.

Weather rainy Time 10:15 A.M.

Capture

Det.	Coll.						
	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>C. obetipus</u>					<u>4</u>		

addition
32.2

30.0

29.1

28.4

No. 4-1760-3a, 3b.

Date Apr. 17, 1960

Cullman

Co. & State Winston Co., Ala.

Loc. 20.9 mi. W. of Cullman, U.S. Hy. 278

East Fork of Crooked Cr.

Black Warrior Drainage

Water clear

Flow sluggish to med.

Width 40 ft.

Depth up to 3

pH

Temp.

Bottom

sandy with scattered rocks

Vegetation

none in water

Shore

ravine stream - willow, liriodendron,

pine, cirsium

Air Temp. 10:45 A.M.

Weather

overcast

Time

Capture

Det.

Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>C. obetipus</u>	2			2	1		
<u>O. retiferus</u>	8	2	2		1	3	

66.3
50.6
15.7
Saddle
Springs

42.9
32.2
10.7

No. 4-1760-4

Date Apr. 17, 1960

Addison

Co. & State Winston Co., Ala.

Loc. 10.7 mi. W. of Addison, U. S. 278

W. Fork Licking River

Water clear

Flow very swift except
along banks

Width 40-75 ft. Depth 3+ pH Temp.

Bottom sand + rock

Vegetation none in water

Shore typical of ravine stream

Air Temp.

Weather Time noon

Capture

Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
<u>O. crockeri</u>	<u>1</u>							

Date 4-1760-5a, 5b

Cat. No. Apr. 17, 1960

P.O. Double Springs

Co. & State Walker Co., Ala.

Locality. 15.7 mi. S. of Double Springs, St. Hy. 195

Quadrangle _____

Elevation _____

Water: slightly cloudy Flow sluggish

Width 2-4 ft. Depth up to 2 pH _____ Temp. _____

Bottom very few rocks, much debris

Vegetation _____

Shore swampy terrain

Air Temp. _____

Weather overcast Time 1:30

Method of Capture _____

Preservative _____

Collected by: _____

General Notes:

C. striatus 1♀, 2 juv ♀

O. crockeri 1♂, 1♀, 1♀ with eggs

87.1
84.7
2.4

Date 4-17-60 - 6a, 6b, 6c.

Cat. No. Apr. 17, 1960

P.O. Jasper

Co. & State Walker Co., Ala.

Locality. 2.4 mi. W. of Jasper, U.S. Hwy. 78

Trk to Mulberry Tr. of Black Warrior

Quadrangle _____

Elevation _____

Water: slightly cloudy

Flow sluggish

Width 10-20 ft.

Depth up to 4

pH _____

Temp. _____

Bottom sand & silt

Vegetation none

Shore willow swamp - tall grassy

Air Temp. _____

Weather _____

Time 2:15

Method of Capture _____

Preservative _____

Collected by: _____

General Notes:

O. setiferus 1♂I, 1♂II, 1♂juv.

C. obliquus 2 juv ♂.

C. striatus 2 juv ♀

Date 4-1760-7a, 7b, 7c, 7d

Cat. No. Apr. 17, 1960

P.O. Carona

Co. & State Walker Co., Ala.

Locality. 16.2 mi. from junction of U.S. 78 with St. Hy. 69,
on St. Hy. 18

Quadrangle _____

Elevation _____

Water: clear

Flow sluggish

Width 15 ft.

Depth 6 in.

pH _____ Temp. _____

Bottom small pebbles

Vegetation none

Shore willow, sweet gum, tulip, yucca

Air Temp. _____

Weather overcast

Time 3:00

Method of Capture _____

Preservative _____

Collected by: _____

General Notes:

lots of dipterans in houses

O. crockeri? 207 juv, 22 juv

O. setiferus? 107 juv.

C. obatyrus 207 juv

C. striatus 107 II, 14 juv.

15.8
0.7.2
8.6

Date 4-1760-8a, 8b, 8c

Cat. No. Apr. 16, 1960

P.O. Berry

Co. & State Fayette Co., Ala.

Locality. Sub m. w. of Fayette - Walker Co. line, St.
Hy. 18

Quadrangle _____

Elevation _____

Water: clear

Flow sluggish

Width 6-10 ft. Depth 2+ pH _____ Temp. _____

Bottom clay + rocks

Vegetation none

Shore sweet gum, willow, few pines

Air Temp. _____

Weather _____ Time 4:00

Method of Capture _____

Preservative _____

Collected by: _____

General Notes:

O. decus 2♂I, 1♂jnr 2♀jnr 3♀eggs

O. crockeri? 1♂II, 2♂jnr 3♀jnr 1♀egg

C. striatus 1♀, 1♂jnr

32.8 Fayette
9

Date 4-17-60 - 9a, 9+ Cat. No. Apr. 17, 1960
P.O. Fayette Co. & State Fayette Co., Ala.
Locality. 5 mi. w. of Fayette, St. Hy. 96
Lombier drainage
Quadrangle _____ Elevation _____
Water: cloudy Flow moderate
Width 10 ft. Depth 3+ pH _____ Temp. _____
Bottom sand + silt
Vegetation none
Shore willow, sweet gum, shad bush
Air Temp. _____
Weather rainy Time 5 P.M.
Method of Capture _____
Preservative _____
Collected by: _____
General Notes:

C. striatus var 107 I, 4 07 II, 2 ♀, 107 juv, 2 ♀ juv.
(not notched cent. proj.)
O. wurti 1 juv 07.

43.0 Fayette - Lamar Co. line

Date 4-17-60-10a, 10b

Cat. No. Apr. 17, 1960

P.O. Fayette

Co. & State Fayette Co., Ala.

Locality. 9 mi. W. of Fayette, St. Hy. 96
Fountain

Quadrangle _____

Elevation _____

Water: slightly cloudy Flow mod. to swift

Width 10 ft. Depth + 3 pH _____ Temp. _____

Bottom sandy

Vegetation none

Shore sage, pines, sweet gum -
flat cultivated land

Air Temp. _____

Weather _____ Time 5:40 P.M.

Method of Capture _____

Preservative _____

Collected by: _____

General Notes:

O. weeti 207 II, 10⁺ juv., 1 ♀ juv.

C. striatus 2 ♀, 10⁺ juv.

$$\begin{array}{r} 51.1 \\ 43.0 \\ \hline 8.1 \end{array}$$

Date 4-1760-11a, 11b

Cat. No. Ap. 17, 1960

P.O. Millport

Co. & State Lamar Co., Ala.

Locality. 8.1 mi. w. of Fayette - Lamar Co. line.
St. Hy. 96

Quadrangle _____

Elevation _____

Water: slightly cloudy

Flow moderate

Width 30 ft.

Depth + 3

pH _____ Temp. _____

Bottom sand

Vegetation none

Shore swampy - sweet gum, etc.

Air Temp. _____

Weather overcast

Time 6:15 P.M.

Method of Capture _____

Preservative _____

Collected by: _____

General Notes:

Questi 207 II

C. striatus 207 II, 17

Date 4-1860-1a, 1b, 1c

Cat. No. Apr. 18, 1960

P.O. Columbus

Co. & State

Lauderdale Co., Miss

Locality. 8 miles S. of Columbus, Lt. Hy. 50
(called Hy. 10 on map)

Quadrangle

Elevation

Water: slightly cloudy

Flow

moderate

Width 6-10 ft.

Depth

6 in. - 2 ft.

pH

Temp.

Bottom

sand & gravel

Vegetation

none

Shore

sweet gum, pine, live oak, dogwood

Air Temp.

Weather

sunny

Time

7:00 A.M.

Method of Capture

Preservative

Collected by:

General Notes:

O. chockeri 10♂ I, 70♂ II, 10♀, 15 juv, 1♀ with young

P. b. acutus 10♂ II, 3 juv ♂, 6 juv ♀.

C. striatus var 10♂ I, 50♂ II, 6 juv ♂, 4 juv ♀

2 bottles

Date 4-1860-2a, 2b, 2c, 2d Cat. No. Apr. 18, 1960

P.O. Columbus Co. & State Larousses Co., France

Locality. 5.3 mi. e. of Columbus, St. Hy. 50
(called 9th, 10 on map)

Quadrangle _____ Elevation _____

Water: _____ Flow _____

Width _____ Depth _____ pH _____ Temp. _____

Bottom Roadside ditch, choked with grass

Vegetation _____

Shore _____

Air Temp. _____

Weather _____ Time 10 A.M.

Method of Capture _____

Preservative _____

Collected by: _____

General Notes:

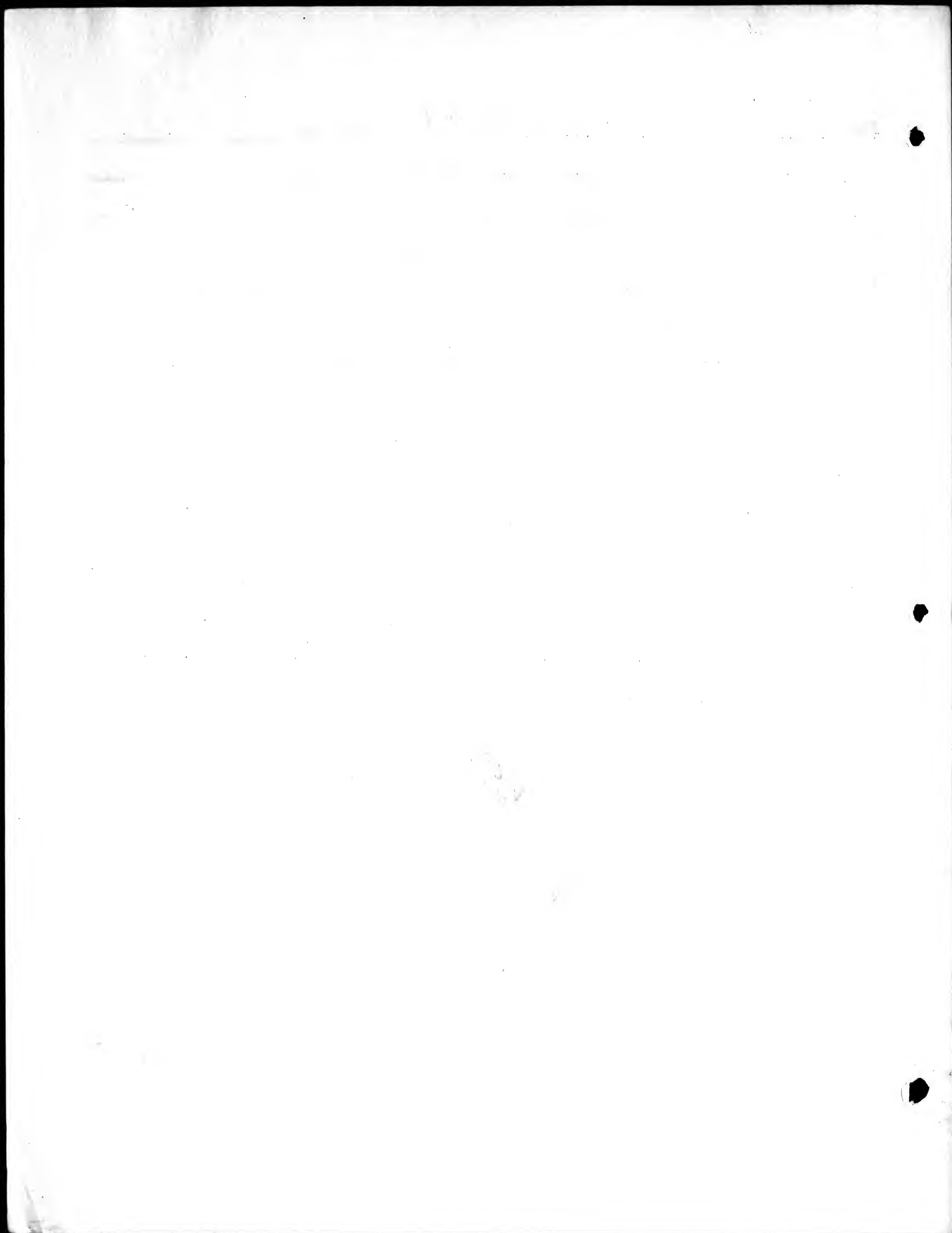
C. fadiens? 107 I (numbered 4-1860-2)

C. dirgenes 1 juv ♀

P. hybus 507 II, 3 ♀

P. b. acutus 307 II, 1007 juv 13 ♀ juv.

36



99.3

4 bottles

No. 4-1860-3a, 3b, 3c, 3dDate Apr. 18, 1960ColumbusCo. LauderdaleSt. Miss.Locality 2.3 mi. W. of Columbus, U.S.Hy. 82Roadside ditch 200 ft. long, with over 2 ft. deep

Quadrangle _____ Elevation _____ Atm. Pr. _____

Time 11:30 Weather Sunny Rel. Humidity _____ Temp. _____

Terrain _____

Geological Formation _____

Turbidity _____ Flow _____ Temp. _____ pH _____

Width _____ Depth _____ O₂ _____ CO₂ _____

M. O. Alk. _____ Phenolphthalein Alk. _____

Bottom grasses

Shore _____

P. b. acutus ^{207I} 107I, ^{207II} 407II, ^{207III} 407III, ^{6 juv} 10 juv 67, ^{12 juv} 12 juv 7 - two onP. v. viridis - ^{3257II} 3257II, ^{36 ♀} 36 ♀ (Bottle II) 107I, 207II, 107IIIP. hybus - ^{157II} 157IIC. fodiens - 1 ♀

106.3
95
11.3

No. 4-1860-4a, 4b
Columbus

Date Apr. 18, 1960

Co. Lauderdale

St. Miss.

Locality 11.3 mi. W. of Columbus, U.S.

Rd. 82

Roadside ditch - on prairie

Quadrangle _____ Elevation _____ Atm. Pr. _____

Time 12:45 Weather _____ Rel. Humidity _____ Temp. _____

Terrain _____

Geological Formation _____

Turbidity _____ Flow _____ Temp. _____ pH _____

Width _____ Depth _____ O₂ _____ CO₂ _____

M. O. Alk. _____ Phenolphthalein Alk. _____

Bottom _____

Shore open pasture lands

P. b. acutus 10♂ I, 3♀, 3 juv ♀

P. lybur 8♂ II, 8♀

No. 4-1860-5

Starkville

Date Apr. 18, 1960

Co. Oktibbeha

St. Miss.

Locality 6.4 miles S.W. of Starkville State Univ.
Campus, St. Hy. 12

Quadrangle _____ Elevation _____ Atm. Pr. _____

Time 3:00 Weather _____ Rel. Humidity _____ Temp. _____

Terrain _____

Geological Formation _____

Turbidity _____ Flow almost none Temp. _____ pH _____

Width 10-20 ft. Depth 2 ft. O₂ _____ CO₂ _____

M. O. Alk. _____ Phenolphthalein Alk. _____

Bottom clay & sand

Shore grass, pine - flat prairie land

P. acutissimus 3 ♂ I, 4 ♂ II, 3 ♀, 1 juv ♂, 1 juv ♀

33.9
18.7
15.2

No. 4-1860-6
Starkville

Date Apr. 18, 1960

Co. Oktibbeha

St. Miss.

Locality 15.2 mi. s.w. of Trice St. Univ.
campus, St. Hy. 12
Roadside ditch Barren pit

Quadrangle _____ Elevation _____ Atm. Pr. _____

Time 3:30 Weather _____ Rel. Humidity _____ Temp. _____

Terrain _____

Geological Formation _____

Turbidity _____ Flow _____ Temp. _____ pH _____

Width _____ Depth _____ O₂ _____ CO₂ _____

M. O. Alk. _____ Phenolphthalein Alk. _____

Bottom _____

Shore _____

P. acutissimus — 3♀, 5♂ juv 7♀ juv
(labeled *P. hayi*)

2 bottles

38.9
36.2
2.7

No. 4-1860-7a, 7b, 7c
Sturgis

Date Apr. 18, 1960
Co. Oktobeha
St. Miss.

Locality 2.7 mi. W. of Sturgis, St. Hy. 12
.6 mi. E of Oktobeha - Choctaw

Quadrangle _____ Elevation _____ Atm. Pr. _____

Time 4:00 Weather sunny Rel. Humidity _____ Temp. _____

Terrain _____

Geological Formation _____

Turbidity _____ Flow moderate Temp. _____ pH _____

Width 20 ft. Depth 2 ft. O₂ _____ CO₂ _____

M. O. Alk. _____ Phenolphthalein Alk. _____

Bottom _____

clear - sandy bottom

Shore willows

P. acutissimus 107 II, 1 juv ♀

O. crockeri (?) 1 juv ♀, 1 ♀ with eggs

C. striatus var. 307 II, 2 ♀♀, 2 juv ♀

No. 4-1860-8a, 8b, 8c, 8d
Sturgis

Date Apr. 18, 1960
Co. Choctaw
St. Miss

Locality 6 miles W. of Okibbeha - Choctaw
co. line, St. Hy. 12

Quadrangle _____ Elevation _____ Atm. Pr. _____

Time 4:40 Weather sunny Rel. Humidity _____ Temp. _____

Terrain _____

Geological Formation _____

Turbidity _____ Flow sluggish Temp. _____ pH _____

Width 2 ft. Depth _____ O₂ _____ CO₂ _____

M. O. Alk. _____ Phenolphthalein Alk. _____

Bottom _____

Shore swampy

43 P. b. acutus - 10⁺ I, 1♀, 19 juv ♂, 22 juv ♀
25 P. vires-viridis 10⁺ I, 13 ♂ II 10♀, 1 juv ♂
20 C. cristatus 70⁺ II, 13♀
C. striatus 10⁺ II 1 juv ♀

89

53.6

45.7

7.9

No.

4-1860-8
Ackerman

Date

Apr. 18, 1965

Co.

Choctaw

St.

Miss.

Locality

7.9 mi. s.w. of Ackerman, H. Hg. 12.
roadside ditch

Quadrangle

Elevation

Atm. Pr.

Time

5:00

Weather

sunny

Rel. Humidity

Temp.

Terrain

Geological Formation

Turbidity

Flow

Temp.

pH

Width

Depth

O₂

CO₂

M. O. Alk.

Phenolphthalein Alk.

Bottom

Shore

No. 4-1960-1a, 1b
Kosciusko

Date Apr. 19, 1960
Co. Attala
St. Miss.

Locality 3.2 mi. S. of junction of St. Hys.
35 + 14, on Hy. 35.

Quadrangle _____ Elevation _____ Atm. Pr. _____

Time 7:45 AM Weather _____ Rel. Humidity _____ Temp. _____

Terrain _____ cloudy water

Geological Formation _____

Turbidity _____ Flow sluggish Temp. _____ pH _____

Width 4-6 ft. Depth 2 ft. O₂ _____ CO₂ _____

M. O. Alk. _____ Phenolphthalein Alk. _____

Bottom sand + clay

Shore sweet gum, tulip poplar, willow

P. blandingii acutus 2♀, 1 juv ♂, 3 juv ♀
C. striatus 1♀, 5 juv ♂, 4 juv ♀

Carthage 209.0
11.9

No. 4-1960-2
Walnut Grove

Date Apr. 19, 1960

Co. Leake

St. Miss.

Locality 11.9 mi. s. of Carthage, St. Hy. 35

wet weather pool in pasture lands, very cloudy
Water

Quadrangle _____ Elevation _____ Atm. Pr. _____

Time 9 A.M. Weather _____ Rel. Humidity _____ Temp. _____

Terrain _____

Geological Formation _____

Turbidity _____ Flow _____ Temp. _____ pH _____

Width _____ Depth 1 1/2 O₂ _____ CO₂ _____

M. O. Alk. _____ Phenolphthalein Alk. _____

Bottom _____

tall diogenes chimneys in
adjacent field

Shore _____

P. b. acutus 3071, 19 jir 07, 14 jir 07

29.8
21.2
8.6

No. 4-1960-3
Forest

Date Apr. 19, 1960
Co. Scott
St. Miss.

Locality 8.6 mi. s. of Leake - Scott Co. line,
St. Hy. 35
tiny roadside ditch

Quadrangle _____ Elevation _____ Atm. Pr. _____

Time 9:25 Weather _____ Rel. Humidity _____ Temp. _____

Terrain _____

Geological Formation _____

Turbidity _____ Flow _____ Temp. _____ pH _____

Width 5 Depth _____ O₂ _____ CO₂ _____

M. O. Alk. _____ Phenolphthalein Alk. _____

Bottom _____

12 ft. long
clay. silty bottom

Shore _____

(25) C. b. acutus 5♂ I, 4♂ II, 9♀, 2 juv, 5 ♀ juv

No. 4-1960-4
Forest

34.2
21.2
13.0

Date Apr. 19, 1960

Co. Scott

St. Miss.

Locality 13 mi. s. of Lake - Scott Co. line, St.
Dy. 35

Roadside ditch

Quadrangle _____ Elevation _____ Atm. Pr. _____

Time 9:50 Weather _____ Rel. Humidity _____ Temp. _____

Terrain _____

Geological Formation _____

Turbidity _____ Flow _____ Temp. _____ pH _____

Width _____ Depth _____ O₂ _____ CO₂ _____

M. O. Alk. _____ Phenolphthalein Alk. _____

Bottom clay

Shore farm lands

P. b. acutus 607I, 607II, 42, 3 juv ♀

No. 4-1966-5
Forest

Date Apr. 19, 1966
Co. Rankin
St. Miss.

Locality 1.5 mile from Scott-Rankin Co. line
U. S. 80
small barrow pt - dirty water

Quadrangle _____ Elevation _____ Atm. Pr. _____

Time _____ Weather _____ Rel. Humidity _____ Temp. _____

Terrain _____

Geological Formation _____

Turbidity _____ Flow _____ Temp. _____ pH _____

Width _____ Depth _____ O₂ _____ CO₂ _____

M. O. Alk. _____ Phenolphthalein Alk. _____

Bottom blue clay

Shore _____

P. blandingii acutus

207 I, 307 II, 10 ♀, 4 juv ♂, 3 juv ♀

No. 4-1960-6a, 6b
forest

Date Apr. 19, 1960

Co. Rankin

St. Miss.

Locality 9 mile from Scott-Rankin Co. line
U.S. 80

luggish stream - cloudy water

Quadrangle _____ Elevation _____ Atm. Pr. _____

Time _____ Weather _____ Rel. Humidity _____ Temp. _____

Terrain _____

Geological Formation _____

Turbidity _____ Flow _____ Temp. _____ pH _____

Width 4¹² ft. Depth _____ O₂ _____ CO₂ _____

M. O. Alk. _____ Phenolphthalein Alk. _____

Bottom clay

Shore P. b. acutus 107 I

C. striatus 107 juv.

11.2 mize

No. 4-1960-7a, 7b
mize

Date Apr. 19, 1960

Co. Smith

St. Miss.

Locality In city limits of Mize, on St. Hy. 35
Borrow pit + borrow

Quadrangle _____ Elevation _____ Atm. Pr. _____

Time 1110 Weather _____ Rel. Humidity _____ Temp. _____

Terrain _____

Geological Formation _____

Turbidity _____ Flow _____ Temp. _____ pH _____

Width _____ Depth _____ O₂ _____ CO₂ _____

M. O. Alk. _____ Phenolphthalein Alk. _____

Bottom _____

Shore P. b. acutus 207 I, 107 II, 20, 207 juv

Cambarus sp. 1 ♀, 3 juv 07, 1 juv ♀

50.2
22.2

Co. line

No. 4-1960-8
Cellaris

28

Date Apr. 19, 1960

Co. Covington

St. Miss.

Locality 28 miles S. of Mt. Olive, U.S.

Hy. 49 - just beyond road to Covington

Forest Co. line - Roadside ditch

Quadrangle _____ Elevation _____ Atm. Pr. _____

Time 2:45 Weather _____ Rel. Humidity _____ Temp. _____

Terrain _____

Geological Formation _____

Turbidity _____ Flow _____ Temp. _____ pH _____

Width _____ Depth _____ O₂ _____ CO₂ _____

M. O. Alk. _____ Phenolphthalein Alk. _____

Bottom _____

Shore _____

P. b. acutus 10⁺ II, 3♀♀

Date 14 June 60 Cat. No. 60-1 ^{6-1460-1a, 1b}
P. C. Jonesboro Co. & State Arkansas Craighead Co.
Locality Small stream ca. 5 mi. NW of Jonesboro on
US Rt. 63 at Ernest Robert's Grocery Store

Quadrangle _____ Elevation _____
Water: Cloudy, turbid, oily Flow Sluggish
Width 3 ft Depth 1.5 ft pH _____ Temp. 27°
Bottom silty

Stream Vegetation None

Shore Vegetation Salix, Pinus, Quercus, Juniper

Air Temp. 75°C
Weather Fair to Cloudy Time 10:45 A.M.
Method of Capture _____

Preservative _____

Collected by: _____

General Notes:

Orconectes palmeri palmeri 1♂I, 1♂II, 4♂♂juv., 4♀♀juv.
Cambarus diogenes 4♀♀juv.

Date 14 June 60 Cat. No. 60-2P. O. Springfield Co. & State Missouri: Greene Co.Locality Sac River 3.2 mi. north of Springfield on
State Rt. 13Quadrangle — Elevation —Water: Clear Flow MedWidth 20 ft Depth .5 f pH — Temp. 24°CBottom RockyStream Vegetation Assorted AlgaeShore Vegetation Salix, PlantainsAir Temp. 80°FWeather Fair Time 5:00 P.M.Method of Capture SeinPreservative FormalinCollected by: Crawford

General Notes:

Crconectes nais 1♂ II, 2♀♀, 7♂♂ juv., 1♀ juv.

Crconectes neglectus neglectus ?? 2♂♂ II, 1♀,

Date 15 June 60 Cat. No. 60-3P. C. Topeka Co. & State ^{Shawnee} KansasLocality Intermittent stream on state rt. 18 -
12 mi. west of TopekaQuadrangle — Elevation —Water: Clear Flow SluggishWidth 3 ft Depth .5 f pH — Temp. 35°CBottom SiltyStream Vegetation TyphaShore Vegetation Salix, TyphaAir Temp. 100°FWeather Fair Time 12:20 P.M.Method of Capture SeinPreservative FormalinCollected by: Crawford

General Notes:

O. nais - 4th II, 400, 1800 juv.; 1000 juv.

P. gracilis - 10 juv.

Date 3 July 60 Cat. No. 60-4
P. C. Coquille Co. & State Oregon
Locality North Fork of Coquille River on Upper North
Fork Road Ca. 2.5 mi. upstream from Laverne Park

Quadrangle — Elevation —

Water: Clear Flow Sluggish

Width 30-40 f Depth 3-10 ft pH — Temp. —

Bottom Gravel to clay

Stream Vegetation —

Shore Vegetation —

Air Temp. —

Weather Fair Time —

Method of Capture —

Preservative By Hand -

Collected by: de Roth, G.C.

General Notes:

Pacifastacus trowbridgii 2♂, 2♀♀, 1 juv.♂

Date Sept. 20, 1960 Cat. No. 60-9

P. O. Tamestown Co. & State No. Dakota

Locality Pepestem Creek near junction of James River
in Klaus Park within city limits of Tamestown

Quadrangle _____ Elevation _____

Water: _____ Flow _____

Width _____ Depth _____ pH _____ Temp. _____

Bottom _____

Stream Vegetation _____

Shore Vegetation _____

_____ Air Temp. _____

Weather _____ Time _____

Method of Capture Hand and sein

Preservative Formalin

Collected by: Lawrence J. Tilly - Biol. Dept. Tamestown College

General Notes:

6-1560-2

Date _____ Cat. No. 60-9

P. C. James town Co. & State No. Dakota

Locality _____

Quadrangle _____ Elevation _____

Water: _____ Flow _____

Width _____ Depth _____ pH _____ Temp. _____

Bottom _____

Stream Vegetation _____

Shore Vegetation _____

_____ Air Temp. _____

Weather _____ Time _____

Method of Capture _____

Preservative _____

Collected by: Tilly, Lawrence

General Notes:

Cy. notos viridis 1♂, 2nd juv., 1 juv.

Date 10 July 60 Cat. No. 60-5
P. C. Reedsport Co. & State Douglas - Oregon
Locality Umpqua State Park Lake

Quadrangle — Elevation —

Water: Clear Flow —

Width — Depth — pH — Temp. —

Bottom Rocky to Sandy

Stream Vegetation —

Shore Vegetation —

Air Temp. —

Weather — Time —

Method of Capture By Hand

Preservative Formalin

Collected by: Strombaugh, T.A. & Allen, Chas.

General Notes:

Pacifastacus trowbridgii 1♂

C-1960-1

Date 19 August 60 Cat. No. 60-6

P. C. Mt. Rushmore Co. & State So. Dakota

Locality Spring Creek on US Rt. 16 at junction of Rt. 16 and Rt. 385

Quadrangle — Elevation —

Water: Clear Flow Sluggish

Width 10 ft Depth 1 ft. pH — Temp. 21°C

Bottom Rocky to Silty

Stream Vegetation Assorted Algae, Juncus

Shore Vegetation —

Air Temp. 80°

Weather Fair Time 2:30 P.M.

Method of Capture Sein

Preservative Formalin

Collected by: Crawford & Crawford

General Notes:

Desmarestia 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

8-2160-1

Date 21 Aug 60 Cat. No. 60-7
P. C. Weaver Co. & State Minnesota
Locality Snake Creek between Weaver & Kellogg on
US Rt. 61 - 4.5 mi. north of Weaver -
Miss drainage

Quadrangle Elevation
Water: Clear Flow Sluggish
Width 10 ft Depth 1.5 ft pH Temp. 26°
Bottom Silty

Stream Vegetation Ternus

Shore Vegetation Salix, Platanus

Air Temp. 92°
Weather Fair Time 2:30 PM

Method of Capture Sein

Preservative Formalin

Collected by: Crawford & Crawford

General Notes:

Cambarus diogenes 5♂ juv., 2♀♀ juv.

Date Aug 23, 1960 Cat. No. 60-8P. C. Scottsburg Co. & State IndianaLocality Small (unnamed) stream on US Rt. 314.6 mi. south of ScottsburgQuadrangle — Elevation —Water: Clear Flow sluggishWidth 3 ft Depth .5 ft pH — Temp. 24°CBottom Silty to sandyStream Vegetation NoneShore Vegetation Platanus, Typha, SalixAir Temp. 82°FWeather Fair Time 10:30 AMMethod of Capture SeinPreservative FormalinCollected by: Crawford & Crawford

General Notes:

Orconectes sloani 1♂I, 11♂II, 7♀

Date Oct. 21-60 Cat. No. 60-10 ^{10-2160-1a,1b}

P. C. Madison Co. & State Wisconsin

Locality Gardner Pond in University Arboretum

Quadrangle — Elevation —

Water: — Flow —

Width — Depth — pH — Temp. —

Bottom —

Stream Vegetation —

Shore Vegetation —

— Air Temp. —

Weather — Time —

Method of Capture Turtle Trap

Preservative Formalin

Collected by: Elizabeth Middleton & Kathy Ream

General Notes:

O. virilis 1-1, 2-9

C. diogenes 1-1

Date Nov. 28, 1960 Cat. No. 60-11P. C. Kodak Co. & State Perry - KentuckyLocality Montgomery Creek in village of Kodak
Kentucky River.Quadrangle — Elevation —Water: Clear Flow ModerateWidth 12 ft Depth 1.5 ft pH — Temp. —Bottom Rocky to sandyStream Vegetation —Shore Vegetation Platanus, Salix, Betula, QuercusAir Temp. —Weather — Time —Method of Capture By HandPreservative Isopropyl AlcoholCollected by: Kenneth Colwell

General Notes:

O. juvenilis 1st I, 1stC. carolinus 1st IC. robustus 3rd II, 2nd

No. A-1561-1

Date _____

White Sulphur Springs

Co. & State Greenbrier Co. W. Va

180.1 Loc. 3.4 mi. E. of White Sulphur Spr. on U.S.
Rt 60, Wades Creek.

Water clear Flow _____

Width 10-15 Depth 6" pH _____ Temp. _____

Bottom rocks some silt

Vegetation no

Shore Tsuga, Prunus, Acer,

Air Temp. _____

Weather clear Time 1205

Capture seine

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>C. b. bartonii</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>1</u>	<u>3</u>		
<u>a heterogeneous population</u>							

183.5. White Sulphur Springs.

Tucker Ck, 6 mi N. of Elizabeth, Wirt Co, W. Va.

No. 4-1561-2 etc.

Date _____

Co. & State

Greenbrier Co., W. Va.

1.89.2 Loc. 5.7 mi W. of White Sulphur Sprs. on
Rt. 60 (Howard's Cr.) 0.9 mi E. of
5.7 Caldwell.

Water clear.

Flow swift

Width 30 - 40

Depth

2'

pH

Temp.

Bottom Rocky

Vegetation no.

Shore Platanus, Betula, Acer.

Air Temp. _____

Weather overcast

Time _____

Capture seine

Det. _____

Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y
① <i>C. charmodactylus</i>			5	1	1		
② <i>C. bartonii</i>			1				
③ <i>O. p. sankarni</i>				1	5		

Caldwell 190.1 ^{at} Bridge

189.2

.9

Ronceverte 198.9.

Oct. 26.3 + 219.

Lewisburg 193.9 ^{turn around} - 194.3.

No. 4-1561-3

Date _____

Co. & State Greenbrier Co., Va.

204.6 Loc. 5.7 mi W. of Rancefork on St Hy 63.

At rd to H. Spring - near junction of stream
with Greenbrier R.

Water Slightly cloudy - greenish Flow swift

Width 20-40 Depth + 3' pH _____ Temp. _____

Bottom rocky

Vegetation none

Shore Platanus, Liquidambar, Alnus.

Air Temp. _____

Weather overcast cloudy Time 2:20

Capture seine

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>C. b. carinirostris</u>		<u>11</u>	<u>7</u>	<u>7</u>	<u>7</u>		

32

204.6

198.9

5.7

211.3 Alderson

212.1 Summers Co. house.

No. 4-1561-4

Date _____

AldersonCo. & State Summers Co. W. Va.213.2 Loc. 1.5 mi W. of Summers Co Line, 1.9 mi NW
of Alderson on Rt 63, within 200 yds of
Mouth of Creek to GreenbrierWater cloudy Flow modWidth 6 Depth 6" pH _____ Temp. _____Bottom sand rocky & silt at edgeVegetation no.Shore In pasture a few willows & Platanus

Air Temp. _____

Weather cloudy variable Time 3:45

Capture _____

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y
2 jars — *Op. santorii x erismophorus	9			18	14	1	
♂. bartonii	1		2	2	1		

(47)

62

13.2
212.7
5

13.2
211.3
1.4

*two males typical erismophorus
one " intermediate
remaining santorii

15
10
9
6
47
32
13

H-1561-5

Date

Alderson

Co. & State Summers Co., W. Va.

Loc. ^{Ck.} 7.9 mi W. of Alderson on St Rt 63

219.2

211.3

7.9

at Homers Run - ~~collections made within~~
~~200 yds from jet of Ck with Henderson R.~~

Water clear Flow mod

Width 1-3' Depth 4" pH Temp.

Bottom

Vegetation none

Shore Quercus Acer

Air Temp.

Weather slightly cloudy Time 4:30

Capture

Det.

Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
C. bartonii			1	2	2		

223-8 Talcott

No. 4-1561-6

Date _____

DalcottCo. & State Summers Co., W. Va.227.3 Loc. 3.5 mi W. of Dalcott on Rt 63Stream within 200 yds of junction with
Greenbrier R.Water clear tumbling over rocks Flow swiftWidth 6-10 Depth 8" pH _____ Temp. _____Bottom RockyVegetation noneShore Bagus, Platanus, Alnus

Air Temp. _____

Weather sunny Time 4:55

Capture _____

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
(a) <i>C. bartonii</i>	4	5	2	2	5			
(b) <i>C. robustus</i>			2					

27.3

23.8

3.5

20

No. 4-1561-7

Date _____

Jumping Branch

Co. & State Summers Co, W. Va.

242.6 Loc. 1 mi E of Raleigh Co line on Rt 3

Water clear Flow tumbling

Width 1-2' Depth 4' pH _____ Temp. _____

Bottom bed rock

Vegetation none

Shore oak, maple

Air Temp. _____

Weather clear Time 5:30

Capture _____

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
<u>C. b. bartonii</u>			1					
<u>larva of root</u>								

Raleigh Co. line
272.6

No. 4-1661-1a, 1b.

Date _____

Fayetteville

Co. & State Fayette Co., W. Va.

280.6 Loc. 3 mi S. Fayetteville (Stream)
on Rt 21

Small meandering stream heavily wooded, flooded

Water muddy

Flow mod.

Width 10'

Depth +3

pH _____

Temp. _____

Bottom mud & clay

Vegetation no

Shore Quercus

Air Temp. _____

Weather cloudy

Time 11:20

Capture seine

Det. _____

Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>O. propinqua</u>		1	2				
<u>C. b. bartonii</u>			2				

No. H-1461-2

Date _____

Jay'sville

Co. & State Fayette Co., W. Va.

283.0 Loc. At south city limits of Jay'sville
on Rt 21, Creek flooded.

Water slightly cloudy Flow rapid

Width 15 Depth 2 pH _____ Temp. _____

Bottom sand rock

Vegetation no

Shore Liriodendron, Cornus, Quercus, Acer
Rhododendron abundant Air Temp. _____

Weather cloudy Time 12:20

Capture seine

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
<u>C. b. bantonii</u>		<u>3</u>	<u>2</u>	<u>6</u>	<u>1</u>			

283.6 Jay'sville

No. 4-1661-3

Date _____

Beckwith

Co. & State Inglette Co., W. Va.

Loc. Laurel Ck + tributary at
Beckwith - Both flooded

Water muddy Flow swift

Width 30 Depth - 2 + pH _____ Temp. _____

Bottom rocky

Vegetation none

Shore Platanus, Tuya

Air Temp. _____

Weather sunny Time 12:55

Capture seine

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
<u>C. b. bartonii</u>		<u>1</u>	<u>2</u>					

(3)

Bailey Bridge 297.9

No. 4-1661-4

Date _____

Lizemores

Co. & State Clay Co., W. Va.

Loc. Trib to Gauley R, 3.6 mi S. of Lizemores

308.9 on Rt 16

Water clear Flow rapid

Width 12 Depth 6 pH _____ Temp. _____

Bottom rocky

Vegetation no.

Shore Platanus, Tilia, Juglans, Rhododendron

Air Temp. _____

Weather overcast Time 2:30

Capture _____

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>C. b. bartonii</u>	<u>2</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>2</u>		

Possibly two distinct forms
united here.
check southern + areola.

Phlyar here.

312.5 Lizemores

3.6

No. 4-1661-5a, 5b, 5c Bottles Date _____
Lizemeres Co. & State Clay Co., W. Va.

313.4 Loc. 9 mi N. of Lizemeres on Rt 16 + Spring
run -

Water slightly cloudy Flow swift

Width 12' Depth 1' pH _____ Temp. _____

Bottom rocky

Vegetation none

Shore Platanus, Tuya, Liquidambar, Rhododendron

Air Temp. 9.5

Weather Sunny & snowing Time 4:15

Capture Hand Seine

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
<u>O.</u>								
<u>O. propinquus saxborii</u>	<u>3</u>		<u>13</u>			<u>1</u>		
<u>C. robustus</u>	<u>2</u>	<u>6</u>	<u>7</u>	<u>3</u>	<u>9</u>			
<u>C. b. bartonii</u>			<u>1</u>		<u>3</u>			
								<u>45</u>

171
27
46

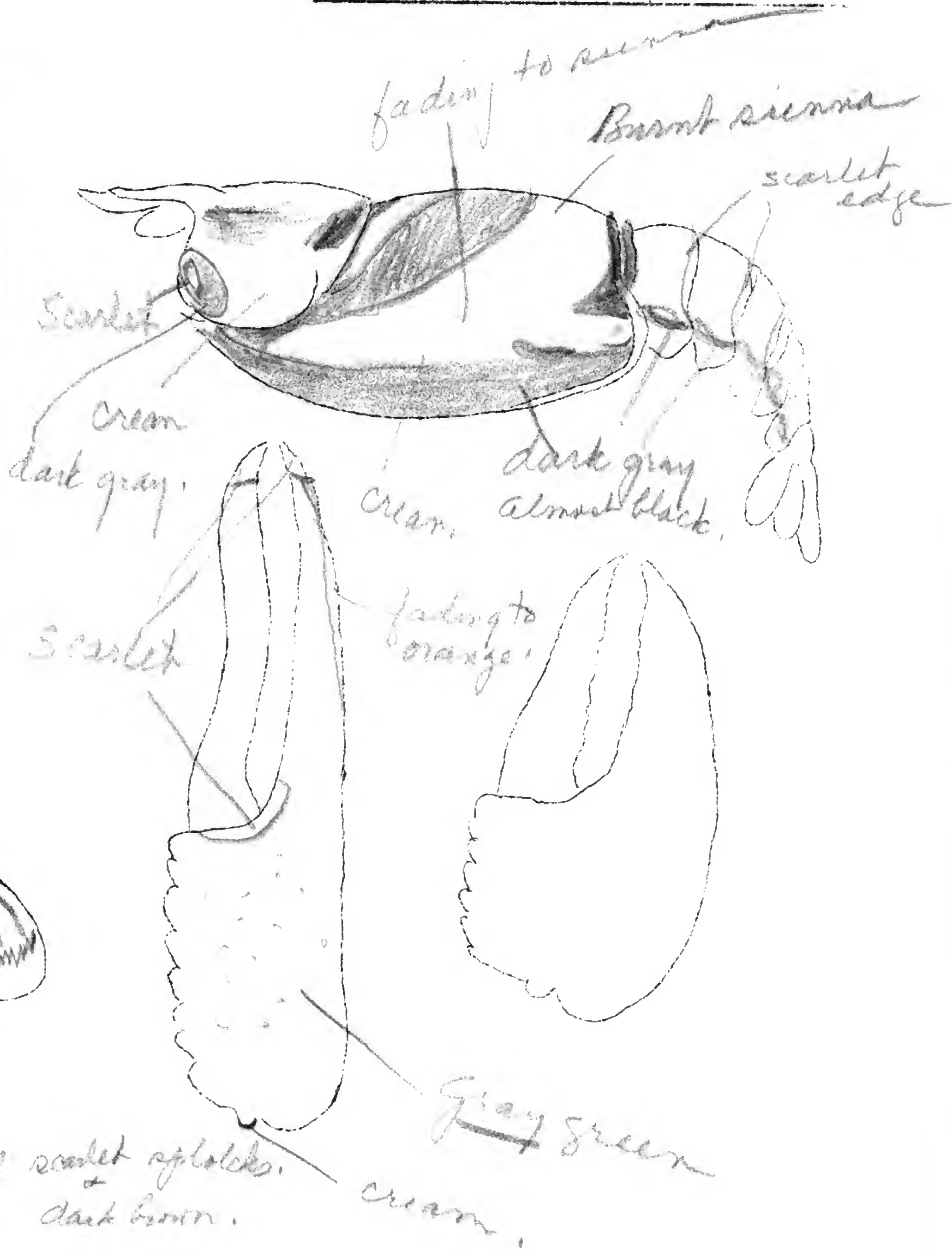
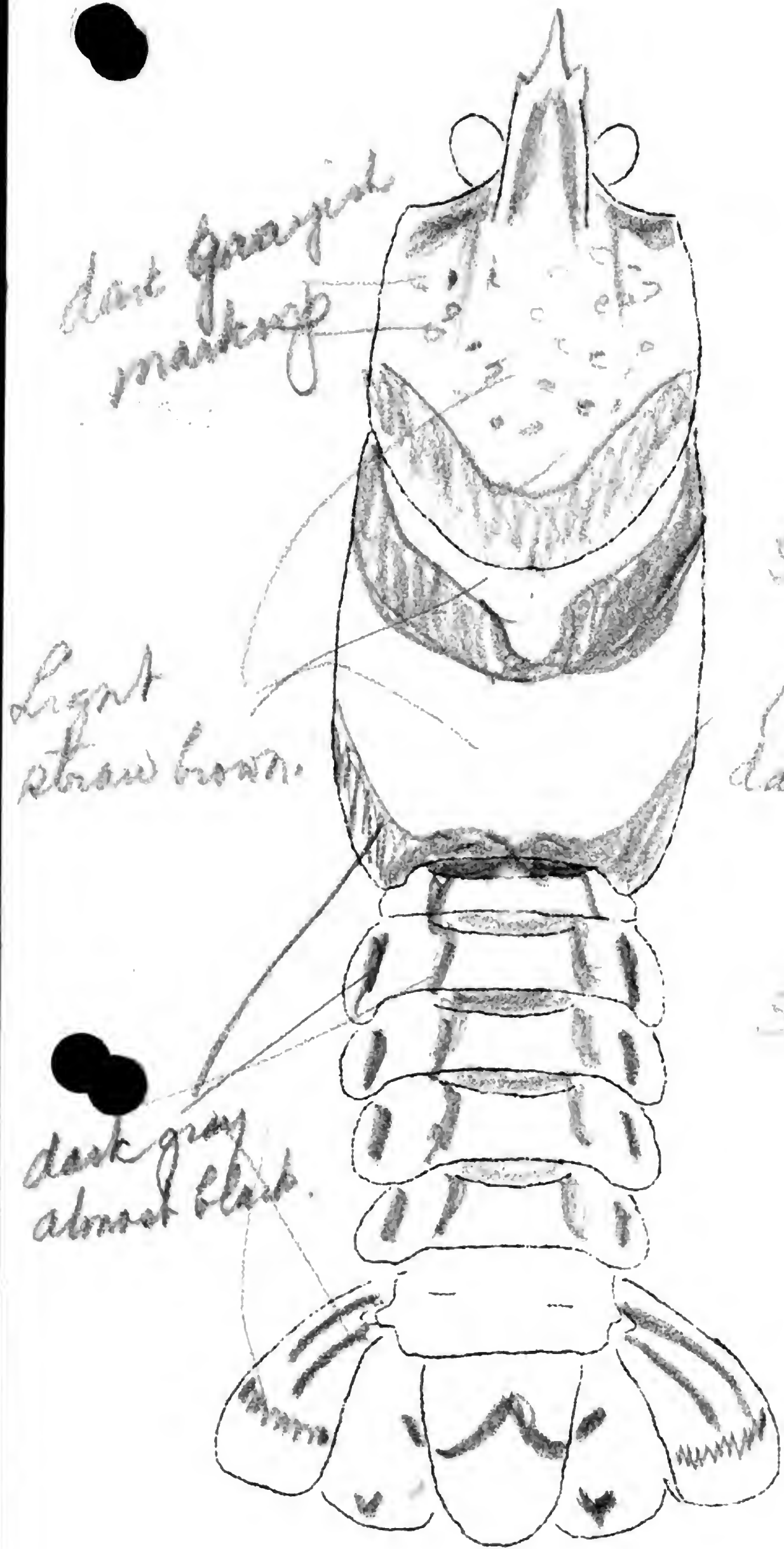
313.5

314.4 Indore

Species _____

No. 4-1661-5

Locality _____



No. H-1661-6

Hartland.

2 jar

Date _____

Co. & State Clay Co. W. Va

320.2 Loc. Stream - 3.1 mi S. of Hartland on Rt 16

Water slightly cloudy Flow swift

Width 15' Depth 1' pH _____ Temp. _____

Bottom rocky

Vegetation none

Shore Jugos, Platanus, Rhododendron

Air Temp. _____

Weather overcast Time 4:45

Capture seine

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>C. robustus</u>	<u>1</u>	<u>1</u>	<u>3</u>	<u>8</u>	<u>5</u>		

323.3 Bridge over Elk R
at Hartland

327.2 Clay

No. 4-116161-7a, 7b

Date _____

Clay

Co. & State Clay Co., W. Va.

334.7 Loc. 7.5 mi W. of Clay on Rt 4 Trib to
Barrel Ct

Water slightly cloudy Flow swift

Width 10' Depth 1' pH _____ Temp. _____

Bottom rocky sand

Vegetation none

Shore Platanus, Cornus, Betula

Air Temp. _____

Weather overcast Time _____

Capture seines

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
<u>O. propinquus carolinensis</u>	1	1	2					
<u>A. palustris</u>	1	1	2	7	3			

(15)

334.7

227.2

1.5

No. 4-1461-8

Date _____

Walton

Co. & State Roane Co., W. Va.

362.5 Loc. Left-hand Creek,
12.3 mi N. of Clendenning stream flowing N.)
on Rt 119. 1.6 mi S. of Walton

Water Slightly cloudy Flow _____

Width 6-8 Depth 1' pH _____ Temp. _____

Bottom sand & rock gravel

Vegetation none

Shore Fagus, Acer

Air Temp. _____

Weather overcast Time 6:35

Capture seine

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>Oporinus xerismorphus</u>	<u>3</u>	<u>1</u>	<u>2</u>		<u>1</u>		

Colored like
Oreocetes on 4-1561-4

350.2 Clendenning
355.1 Roan Co line

364.1 Walton

407.2 Ripley

No. 4-1761-1

Date _____

Peewee

Co. & State Jackson Co, W. Va.

420.8 Loc. 3.4 mi E of Rt 21 on Road to Calcutta

Creek flows W. (5.8 mi W. of Peewee.)

Just S of Little Kanawha R. (R. Fork of Kanawha R.)

Water slightly cloudy Flow swift to mod

Width 10-12 Depth 1 pH _____ Temp. _____

Bottom rock & sandy

Vegetation none

Shore Platanus & Pines in farming area

Air Temp. _____

Weather overcast Time 10:00 AM

Capture seine

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
<u>O. p. sanborni</u>	<u>3</u>		<u>4</u>					

426.6 Peewee

No. 4-1761-2

Date _____

Pee Wee

Co. & State Wirt Co., W. Va.

Loc. Stream at Pee Wee. Crane Creek.

Water slightly cloudy Flow swift

Width 15 Depth 1 pH _____ Temp. _____

Bottom gravel

Vegetation none

Shore Platanus, Juglans nigra, ^{Salix} cultivated area Air Temp. _____

Weather overcast windy Time _____

Capture seine

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
<u>O. p. erismorphus</u>	<u>3</u>	<u>2</u>	<u>4</u>					

427.0 Pee Wee

No. H-1761-3a, 3b

Date _____

Peewee.

Co. & State West Co., W. Va.

432.0 Loc. Sargeant's Run 5 mi NE. Peewee.
Tribe Ho West Run ck (?)

Water clear Flow _____

Width 4-6 Depth 6" pH _____ Temp. _____

Bottom rocky

Vegetation none

Shore Platanus cultivated land

Air Temp. _____

Weather overcast Time 10:45

Capture Seine

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
<u>C. robustus</u>	1		1	2	2			
<u>C. b. laevis</u>			1					

435.0 Palestine

438.4 Elizabeth

443.8 Elizabeth

No. 4-1761-4a, 4b, 4c.

Date _____

Co. & State West Co., W. Va.

448.7 Loc. Jackson Cr. & small trib. 4.9 mi W.
Elizabeth on Morristown Rd.

Water muddy, c/c clear Flow swift with rapids

Width 20-30' 6-8' Depth +3 , 6" pH _____ Temp. _____

Bottom gravel sand

Vegetation none

Shore Plateau, Salix cultivated land

Air Temp. 6°

Weather light snow. Time 12:45

Capture seine

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
<u>O. p. erimophorus</u>	<u>2</u>		<u>1</u>					
<u>C. robustus</u>		<u>3</u>	<u>2</u>	<u>1</u>	<u>5</u>			
<u>C. b. laevis</u>		<u>3</u>	<u>2</u>	<u>3</u>	<u>2</u>			

Loc. 4-1761-5a, 5b, 5c

Date _____

Elizabeth

Co. & State West Co., W. Va.

452.2 Loc. Lucker ck. 8.4 mi. upstream from
Elizabeth.

Water slightly cloudy Flow swift

Width 6-10 Depth + 2 pH _____ Temp. _____

Bottom bed rock, sand, gravel

Vegetation none

Shore Salix Platanus Quercus

Air Temp. _____

Weather morning Time 1:35

Capture seine

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>D. p. erismophorus</u>	<u>3</u>						
<u>C. robustus</u>	<u>1</u>	<u>1</u>	<u>3</u>	<u>3</u>	<u>1</u>		
<u>C. b. laevis</u>		<u>1</u>					

13

452.2
4:30
5.4

Replay 476.1

No. 4-1761-6a, 6b
Pt. Pleasant

Date _____
Co. & State Jackson Co., W. Va.

489.3 Loc. at Jackson Mason Co line on Rt 2,
16.3 mi

Water cloudy Flow rapid

Width 10' Depth 1' pH _____ Temp. _____

Bottom rocky

Vegetation no

Shore Platanus, Salix

Air Temp. _____

Weather overcast Time 3:30

Capture Seine

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>D. p. carolinensis</u>	<u>2</u>	<u>2</u>		<u>6</u>	<u>4</u>	<u>2</u>	
<u>C. b. laevis</u>		<u>2</u>		<u>2</u>	<u>2</u>		

No. 4-1761-7a, 7b

Date _____

Pt. Pleasant

Co. & State Marion Co., W. Va.

Loc. approx 8 mi E. of Pt. Pleasant on Sh. Hy 2
small stream.

Water clear Flow mod.

Width 5' Depth 8" pH _____ Temp. _____

Bottom sand, gravel scattered flat stones

Vegetation none

Shore Salix, Tupelo niger

Air Temp. _____

Weather overcast snow flurries Time 3:55

Capture seine

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>Op. sanborni</u>			1			1	
<u>C. bartonii subsp.?</u>	1			5	2		

(10)

505.6 Pt. Pleasant

H-1761-8
Gallipolis

Date _____

Co. & State Gallia Co., Ohio

515.5 Loc. 5.5 mi. N.W. of Gallipolis on Rt 35.

Water cloudy Flow mod.

Width 6-8 Depth + 2 pH _____ Temp. _____

Bottom clay

Vegetation none

Shore Platanus, Gliditeia

Air Temp. _____

Weather Rainy Time 5:00

Capture seine

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
<u>O. p. ranbarri</u>	<u>6</u>	<u>4</u>	<u>7</u>	<u>1</u>	<u>5</u>	<u>3</u>		

510.0 Gallipolis, Ohio.

(31)

No. 4-1761-9a, 9b

Date _____

~~Old Hill~~ Rocky Hill Co. & State Jackson Co., Ohio629.8 Loc. 6.8 S. of Rocky Hill on U.S. Hwy 35
Small stream along roadsideWater cloudy Flow sluggishWidth 2-4' Depth 6-1 pH _____ Temp. _____Bottom sand, clayVegetation noneShore Ulmus

Air Temp. _____

Weather overcast Time 5:35

Capture _____

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
<u>O. p. sanborni</u>					1			
<u>C. b. lucensis</u>		1	3	2	2			
								(9)

Jackson 543.5
Pike Co. 553.9

No. H-1761-10

Date _____

Beaver.

Co. & State Pike Co., Ohio

555.1

Loc. "Swift Ck" at eastern city limits of Beaver

Water clear Flow swift at rapids

Width 20' Depth + 2 pH _____ Temp. _____

Bottom gravel & sand

Vegetation none

Shore Slope cultivated land

Air Temp. _____

Weather cloudy Time _____

Capture _____

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
<u>O. p. sanborni</u>	<u>1</u>	<u>5</u>	<u>2</u>			<u>2</u>		

10

Beaver 555.4

Lo. H-1861-1a, 1b, 1c

Date _____

Harrison

Co. & State Lewis Co., Ky.

601.6 Loc. 2.5 mi. E. of Harrison large clear stream
Rt 10

Water clear Flow swift

Width 15 - 20 Depth 2 pH _____ Temp. _____

Bottom Rocky

Vegetation no

Shore Carya, Liquidambar, Platanus

Air Temp. _____

Weather overcast Time 10:55

Capture _____

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>O. juvenilis</u>			1				
<u>C. robustus</u>		1	4	3	2		
<u>C. bartonii subsp</u>				1			

604.1 Harrison

No. 4-1861-2a, 2b

Date _____

Charters

Co. & State

Lewis Co., Ky

623.0 Loc. 2.7 mi W. of Charters - Little Salt Lick
Ck. Rt 10

Water

slightly cloudy

Flow

swift

Width

15'

Depth

1'

pH

Temp.

Bottom

rock, gravel, sand

Vegetation

none

Shore

more cultivated land, pasture

Air Temp.

Weather

cloudy

Time

11:55

Capture

seine

Det.

Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>D. juvenilis</u>	<u>3</u>				<u>1</u>	<u>2</u>	
<u>C. bartonii subsp.</u>	<u>2</u>		<u>2</u>	<u>1</u>	<u>1</u>		

613.6 Vanceburg

621.3 Charters

No. 4-1861-3

Date _____

Rectorville

Co. & State Mason Co., Ky.

638.9 Loc. 3.4 mi W of Rectorville on Rt 10
Stream

Water clear Flow sluggish

Width 3-5' Depth 6" pH _____ Temp. _____

Bottom rock & silt

Vegetation none

Shore Acer, Cercis, Carya, Ulmus

Air Temp. _____

Weather cloudy Time 12:45

Capture seem

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>C. b. laevis (?)</u>			<u>1</u>	<u>2</u>	<u>1</u>		

637.6 Rihalt

631.2 Collesboro

634.5 - Mason Co line

635.5 Rectorville

4-1861-4a, 4b

Date _____

Mayville

Co. & State Macon Co., Ky.

648.5 Loc. Lawrence Creek, 3.7 mi W of Mayville
on Rt 10.

Water slightly cloudy Flow mod. swift

Width 30' Depth + 2 pH _____ Temp. _____

Bottom Rocky

Vegetation none

Shore Platanus, Celtis, Salix

Air Temp. _____

Weather cloudy Time 1:50

Capture seine & Hand.

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
<u>O. r. rusticus</u>	<u>6</u>	<u>2</u>	<u>1</u>			<u>1</u>		
<u>C. bartonii subsp.</u>			<u>1</u>					

6442 Pickens R. at Falmouth.
Mayville 21-5

Kennett 657.7 stone

Brookside 665.4

Boonville 668.9

Willow 671.8

Neave 674.8

No. 4-1861-5a, 5b, 5c, 5d 2 jars

Date

Halbrook

Co. & State

Grant Co,

Ky

Loc. Rattlesnake Ck trib. to Eagle Ck, 4.3 mi N.E. of Halbrook.

Water

clear

Flow

sluggish

Width

12

Depth

8"

pH

Temp.

Bottom

rock

Vegetation

none

Shore

Acer, Platanus, Fraxinus, Juglans

Air Temp.

Weather

overcast

Time

5:25

Capture

Seine Hand

Det.

Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>C. diogenes var</u>						4	
<u>C. n. natus</u>		3	1	3	1		
<u>C. ortmanni</u>	1	1	1	3	2		
<u>O. r. rusticus</u>	5			3	4	3	

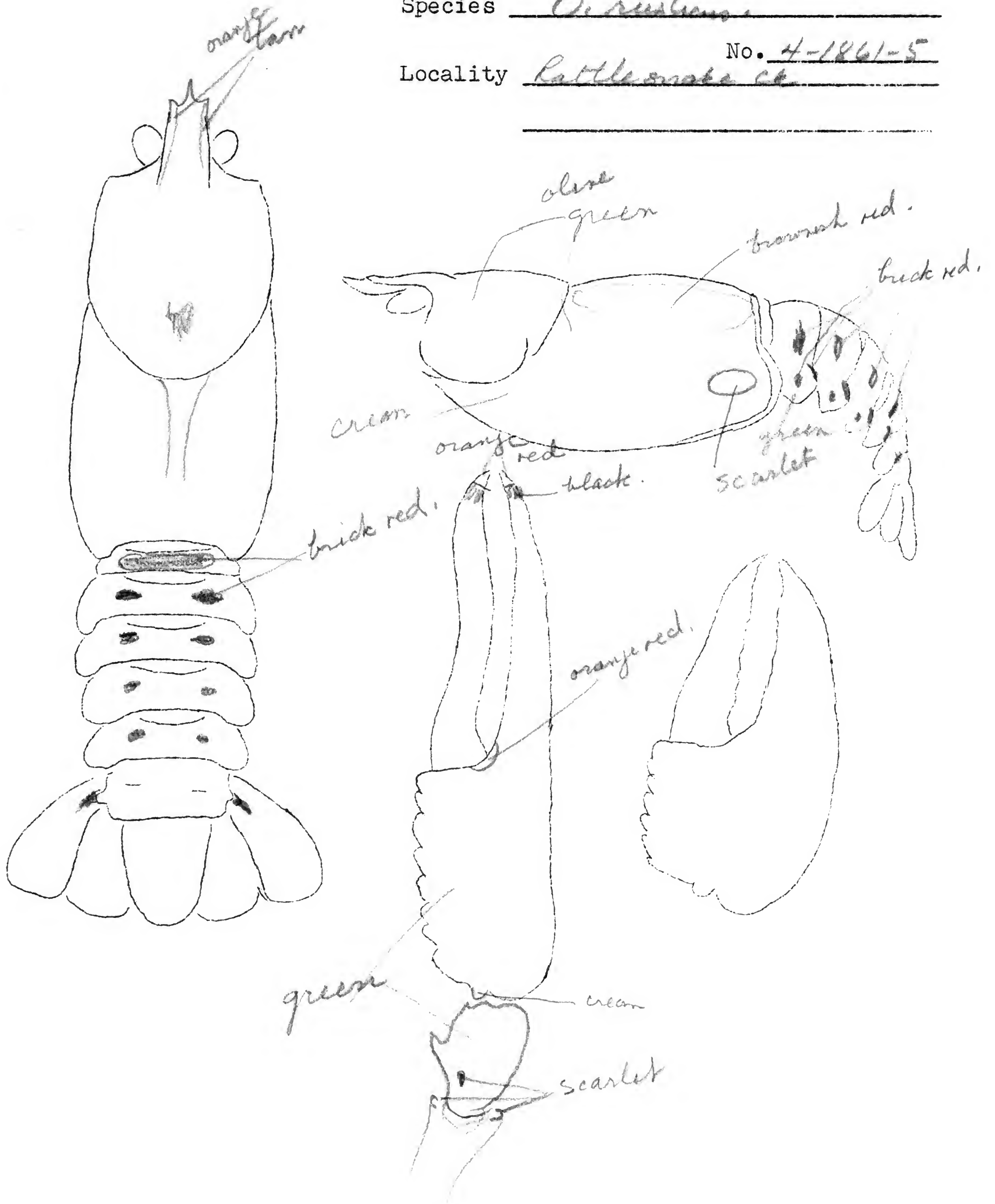
718.6 Halbrook
14.2

729.2. Amenton

Species *O. ruficornis*

No. 4-1861-5

Locality Rattle snake ct.

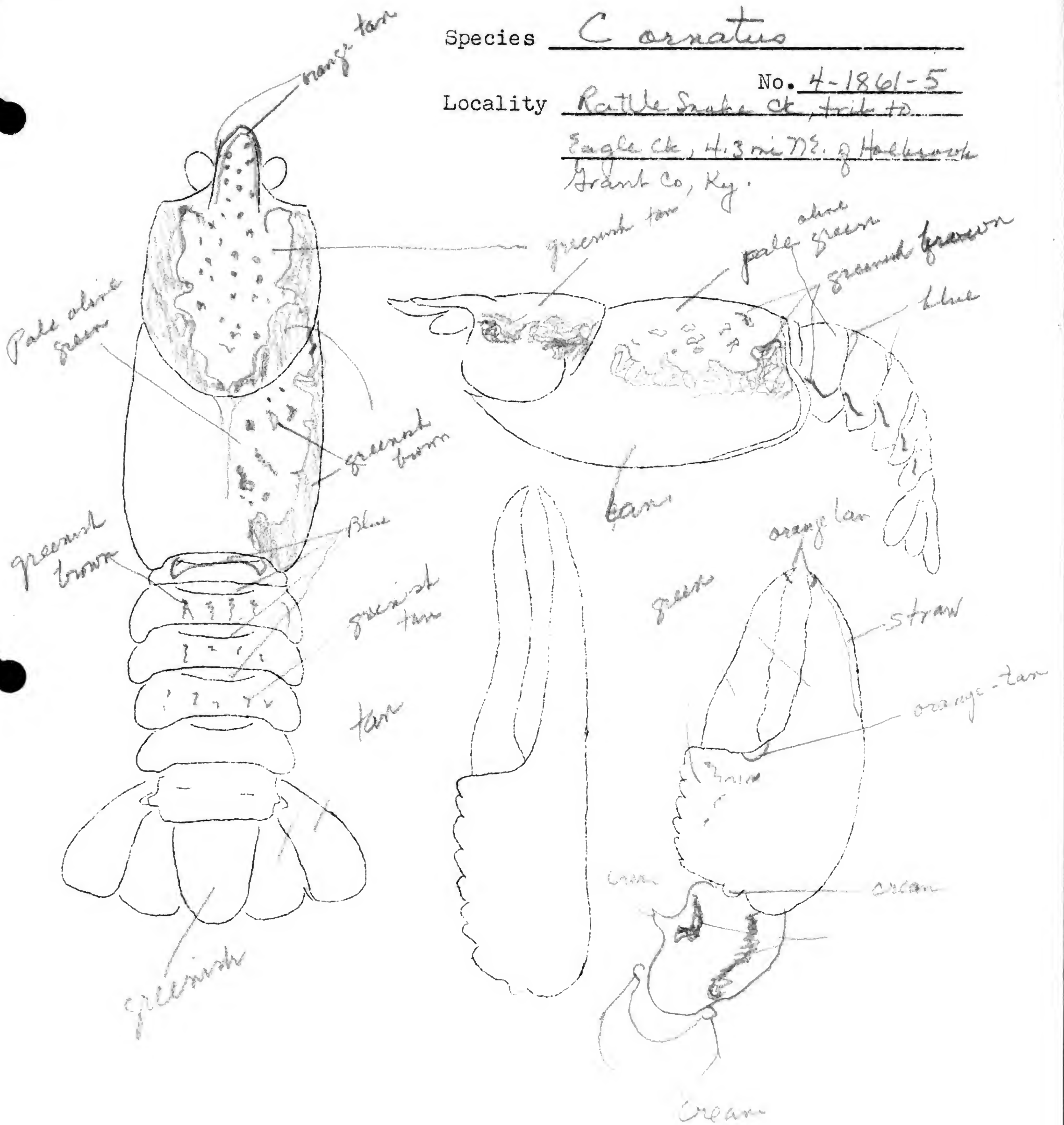


Species C ornatus

No. 4-1861-5

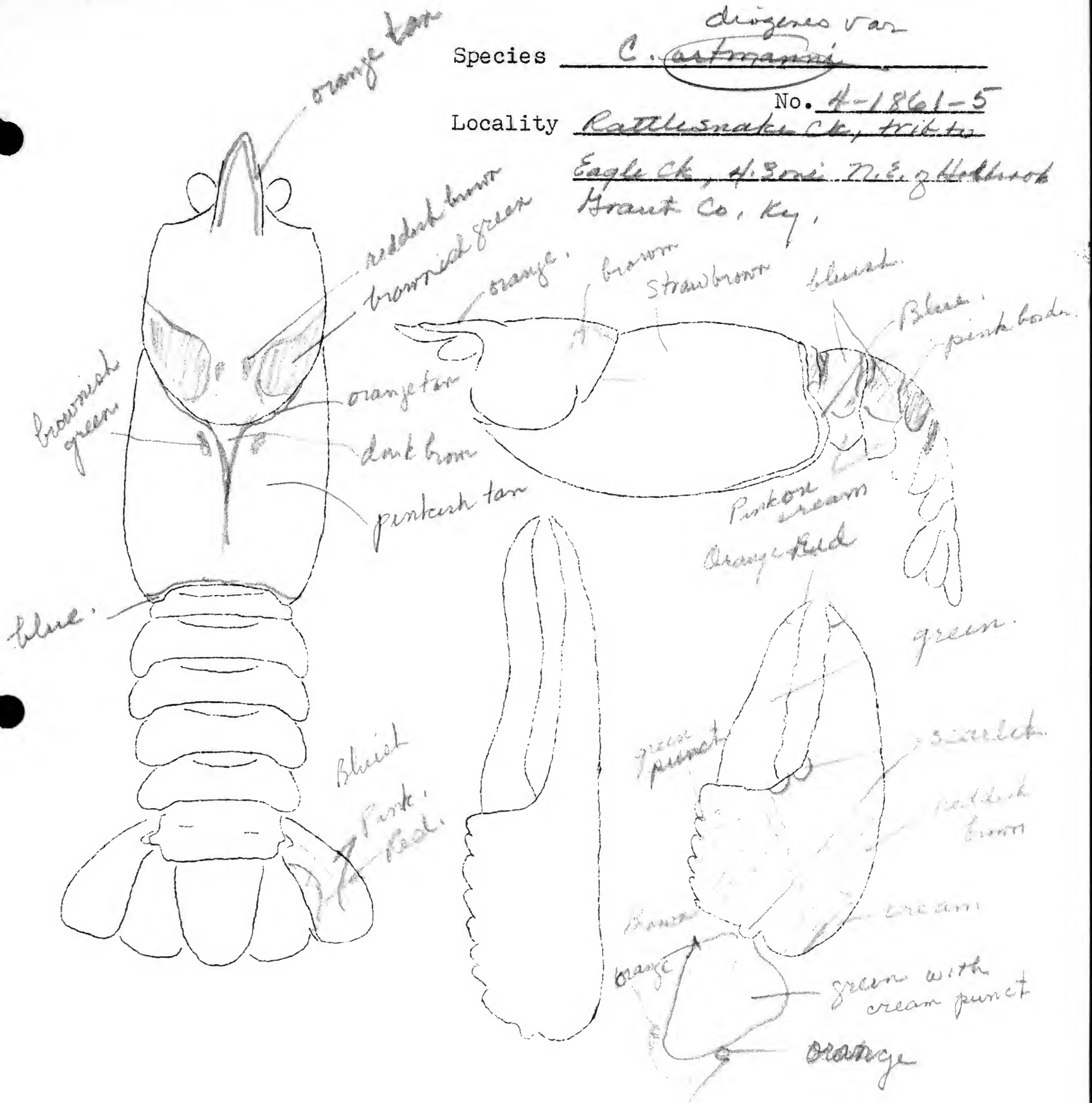
Locality Rattle Snake Ct, trib to

Eagle Ck, 4.3 mi NE. of Hallsboro
Grant Co, Ky.



Species C. ^{dingensis var} ~~astmanni~~

No. 4-1861-5
Locality Rattlesnake Ck, tributary
Eagle Ck, 4.3 mi. N.E. of Holbrook
Grant Co., Ky.



No. 4-1861-6

Date _____

Warthille

Co. & State Owen Co., Ky.

749.0

Loc. In Eagle Ck. ^{U.S.} on Rt 227, 2.3 mi

E. of Warthille -

Water clear Flow mod.

Width 6-15' Depth 6" pH _____ Temp. _____

Bottom rocky

Vegetation _____

Shore American Platanus

Air Temp. _____

Weather cloudy Time 7:25

Capture seine

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
<u>O. r. rusticus</u>	<u>2</u>							

751.3
749.0
2.3

No. 4-1961-1a, 1b.

Date _____

Carrollton

Topotypes of
armatus

Co. & State

Carrollton Co., Ky.

Loc.

Ellis Creek, 4.4 mi SW of Carrollton, on
U.S. Hy 42. (Little Ky. R. dr. 300 yds from river
rocky slope covered)

Water

clear

Flow

moderate

Width

10-15

Depth

1'

pH

Temp.

Bottom

slightly covered rocks

Vegetation

none

Shore

Acer, Platanus, Cornus, Juniperus

Air Temp.

Weather

Sunny

Time

10:00

Capture

Hand.

Det.

Coll.

Topotypes

Carrollton

O. r. rusticus

♂I

♂II

♀

♂j

♀j

♀e

♀y

1

4

4

3

4

1

armatus

[Ellis Branch 4 mi W. of Carrollton (Rt 42) 7 mi S. of

p. jeffersoni

Sub of South Fork of Beargrass Ck, Buchel, Jefferson Co.

" to Muddy Rk of "
on U.S. Rt. 42.

" 2 mi S. of Louisville in Jefferson Co.

766.5 Carrollton

767.1 Little Ky. R. dr.

768.0 Franklin Co line

No. 4-1961-2a, 2b, 2c

Date _____

Bedford

Co. & State

Trimble Co, Ky

769.9

Loc.

Millers Br., 4.6 mi N.E. of Bedford
on Rt 42,

Water

clear

Flow

mod

Width

10'

Depth

2

pH

Temp.

Bottom

rocky + silt

Vegetation

no

Shore

Platanus Salix, Acer

Air Temp.

Weather

Sunny

Time

Capture

Hand

Det.

Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>C. ornatus</u>		1	2		1		
<u>C. b. laevis</u>		1	1				
<u>D. r. rusticus</u>	4	1					

Bedford 774.5E. City limit 775.3
of Bedford

No. 4-1967-3a, 3b, 3c

Date _____

Bedford.

Co. & State

Trimble Co., Ky

Loc.

Bare Bone Ck (?) 1 mi west of Bedford on
Rt. 754.

Water

clear

Flow

mod.

Width

15'

Depth

6"

pH

Temp.

Bottom

bed rock

Vegetation

Algae

Shore

flattened

Air Temp.

Weather

cloudy

Time

11:45

Capture

hand

Det.

Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>C. ornatus</u>	1	1	1				
<u>C. b. laevis</u>	2	1	2	2	1		
<u>O. c. rusticus</u>	2						

Planaria777.3 S. city limits
Bedford.777.4 near 78
783.4 near Rt 42
787.5 Sligo

No. 4-1961-4a, 4b

Date _____

Sligo

Co. & State

Oldham Co

Ky

795.1

Loc.

Narrada Ck. 0.9 mi E. of ^{U.S.} Rt 42, 6.7 mi S.W.

of Sligo

Water

Greenish gray

Flow

swift where coll.

Width

20

Depth

+ 2

pH

Temp.

Bottom

gravel bed rock

Vegetation

Shore

Platanus Quercus

Air Temp.

Weather

sunny

Time

12:45

Capture

seine

Det.

Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>O. r. rusticus</u>	7	—	—	5	4	5	
<u>C. diogenes</u>					1		

22

796 main Rd -

795.7

791.1

796.8

No. 4-1961-5a, 5b, 5c

Date _____

Louisville

Co. & State

Jefferson Co., Ky.

813.9

Loc. 4.8 mi N.E. of Louisville on Rt 42 - Creek

Water

clear

Flow

moderate

Width

6-12'

Depth

1

pH

Temp.

Bottom

rocky

Vegetation

algae

Shore

Platanus, Acer, Cercis - Dutchman's PipeSquirrel Corn, Lilac, Highbush Violet, May apple, Black Nut

Air Temp.

Weather

Sunny

Time

2:50

Capture

Seine

Det.

Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
<u>C. p. jeffersoni</u>	<u>10</u>	<u>12</u>	<u>5</u>			<u>1</u>		<u>28</u>
<u>C. b. laevis</u>	<u>3</u>	<u>3</u>						<u>6</u>
<u>C. ornatus</u>		<u>7</u>	<u>5</u>					<u>12</u>
								<u>46</u>

809.4 Jefferson Co. Ky.

Plants collected

264

No. 4-1961-6 Type Locality of D. p. jeffersoni
Louisville Date _____
Co. & State Jefferson Co., Ky

Loc. Trick to Muddy Tr. & Bear Grass Ck., 2 mi
E. of Louisville on Rt 42

Water clear Flow mod
Width 6-15' Depth + 2 pH _____ Temp. _____

Bottom rock

Vegetation algae

Shore Platanus Cereis Quercus

Air Temp. _____

Weather Sunny Time 3:25

Capture seine

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>D. p. jeffersoni</u>	<u>9</u>	<u>2</u>			<u>1</u>	<u>3</u>	

(15)

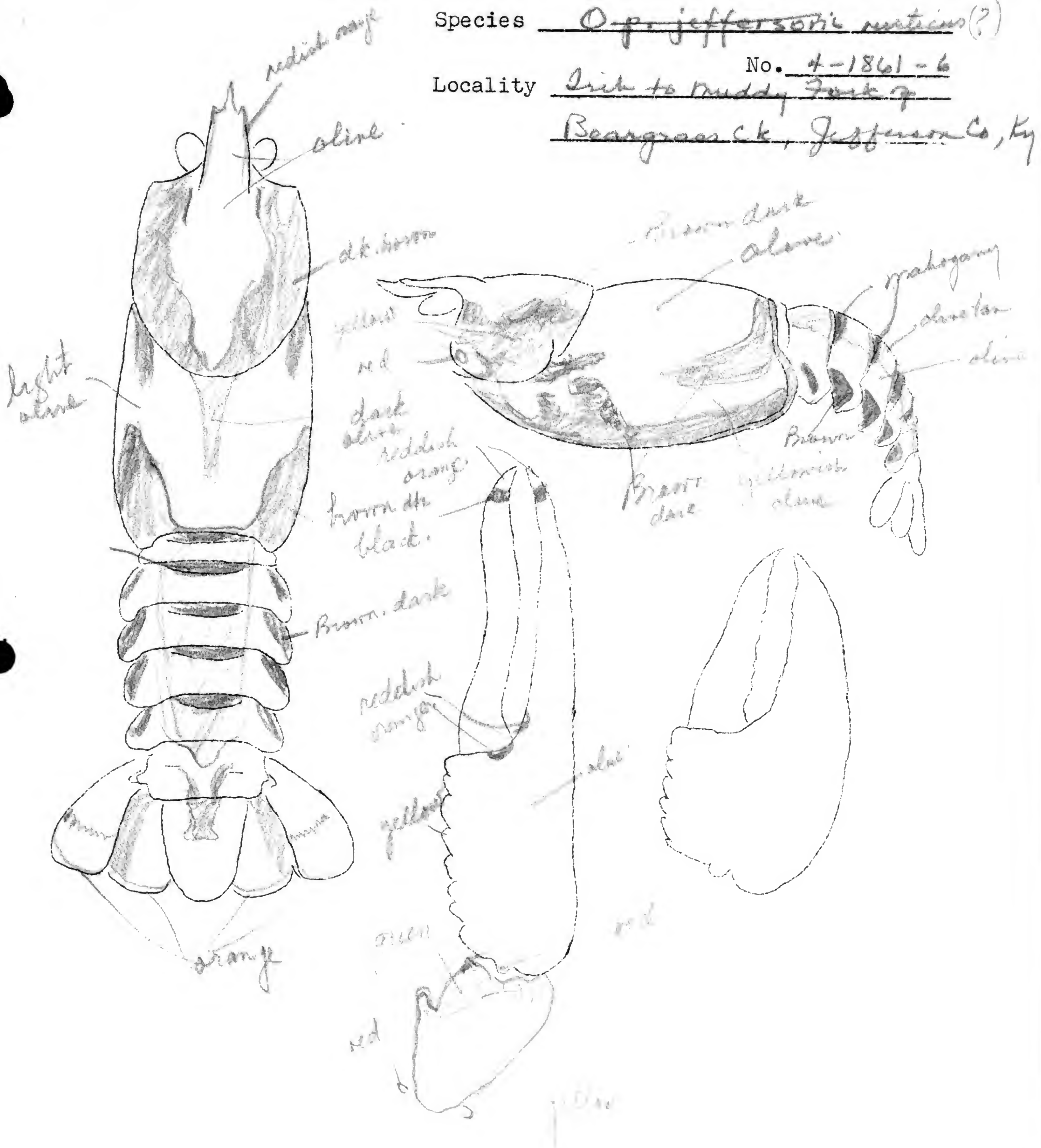
825.7 Middletown
830.0 Eastwood
831.5 Turnoff

Species O. p. jeffersoni naticus(?)

No. 4-1861-6

Locality Link to Muddy Fork

Beangraas Ck., Jefferson Co., Ky.



No. 4-1961-7a, 7b 3 jars

Date

Middletown

Co. & State

Jefferson Co, Ky

8336

Loc. Long Run, 1.9 mi N. of Rt 60, 5.6 mi E. of
Middletown

Water cloudy Flow sluggish

Width 15' Depth 1.5' pH Temp.

Bottom bed rock

Vegetation none

Shore Platanus Ulmus

Air Temp.

Weather sunny

Time 4:50

Capture none

Det.

Coll.

2 jars - O. p. rusticus

C. b. laticornis

♂I	♂II	♀	♂j	♀j	♀e	♀y
17	17	27	2	6	16	
			2	1		

(88)

835.5

4.3

No. H-1961-8

Date _____

Shelbyville

Co. & State Shelby Co., Ky.

851.3 Loc. Tristo Cr. 3.4 mi S. of Shelbyville on Rt 60.
(Salt R. Dr.)

Water slightly cloudy Flow mod.

Width 20-22 Depth 1' pH _____ Temp. _____

Bottom rocky with algal sludge on rocks

Vegetation algae

Shore Platanus, Ulmus, Acer

Air Temp. _____

Weather Sunny Time 5:45

Capture Seine

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
<u>O. r. rusticus</u>	<u>9</u>	<u>1</u>				<u>5</u>		
								(15)

Shelbyville 840.1
Shelbyville 847.9

Lexington 50011.7
K.

(219)

No. 4-2261-1a, 1b, 1c

Date

Dwightville

Co. & State

Bath Co., Ky

Loc. 4.2 mi E. of Dwightville on U.S. Rt 60.

Water muddy

Flow

mod

Width

20

Depth

+2

pH

Temp.

Bottom

rocky silt

Vegetation

grass in areas

Shore

Hedysar, Crataegus, Alnus

Air Temp.

Weather

cloudy

Time

10:50

Capture

Det.

Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
<i>O. r. rusticus</i>	7	9	3	26	29	2		
<i>O. juvenilis</i>				11	4			
<i>C. sp. (striatus?)</i>				1	2			
								(24)

58

18

13

34

Winchester 34.6

Lib. Sterling 50.6

Caneyville 54.8

Self Luck 74.3

No. 4-2261-2a-e 2 jars

Date _____

MooreheadCo. & State Lawson Co., Ky.Loc. East fork of Triple Cr., 3.5 mi E. of
Moorehead on Rt 60.Water clear Flow mod to swiftWidth - 30' Depth + 2 pH _____ Temp. _____Bottom rockVegetation noneShore Glottanum, Prunus, Cercis

Air Temp. _____

Weather cloudy Time 12:00Capture seine, hand

Det. _____

Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>O. juvenilis</u>	3			2		1	
<u>C. bartonii</u>	1			1	1		
<u>C. robustus</u>				1			
<u>C. sp. (near striatus)</u> ^{like C. robustus?}			1				
<u>C. sp. (striatus)</u>				2	1		

(14)

86.3 Moorehead

No. 4-2261-Hay, 4b

Date _____

HaldemanCo. & State Rowan Co., Ky.

968

Loc. Triple Cr., 2.7 mi W. of Carter Co line
on Rt 60.Water clear Flow mod.Width 6-20' Depth +3 pH _____ Temp. _____Bottom rock gravelVegetation noneShore Platanus, Quercus, Prunus

Air Temp. _____

Weather cloudy Time 2:00Capture Hand

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>O. juvenilis</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>2</u>		
<u>C. bartonii</u>		<u>6</u>	<u>4</u>	<u>2</u>			

No. 4-2261-5a, 5b, 5c Date 2 Jan.Co. & State Carter Co., Ky.Loc. 102.9Aline Hill
Just to
Just to Sugar Creek at Jct of Rt 60 +
Rt 1024, 1.1 mile W. of Glabe, on Rt 60.Water clear Flow rapidWidth 15 + Depth + 3 pH Temp. Bottom rocky, with scattered large flat stonesVegetation noneShore flatsAir Temp. Weather cloudy Time 2:40Capture Det. Coll.

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<i>O. juvenalis</i>	1						
<i>O. p. sanborni</i>	4					2	
<i>C. bartonii</i>	2	4	6	4	6		

104.0 Glabe

109.0 Aline Hill

229

D7-13-52

No. 4-2261-6a, 6b.

Date _____

GreenvilleCo. & State Carter Co., Ky.Loc. Barrett's Creek (trib to Little Sandy R) at
Greenville, on US Hwy 60Water clearFlow modWidth 6-12Depth + 3

pH _____

Temp. _____

Bottom rocky, clay, silt.Vegetation some grassShore Platanus Salix

Air Temp. _____

Weather cloudyTime 3:40Capture seine, Hand

Det. _____

Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y	
<u>O. pinusalis</u>	<u>3</u>	<u>1</u>	<u>2</u>					
<u>C. bartonii</u>		<u>12</u>	<u>7</u>	<u>3</u>	<u>1</u>			

(29)

Grayson 124.3

No. 4-2261-7a7b

Date _____

CannonsburgCo. & State Carter Ky.Loc. Sub to Williams Ct. 5.6 mi W. of Cannonsburg on Rt 60.

134.7

Large spec. from burrow on bank.Water slightly cloudy Flow mod.Width 15' Depth 4-2 pH _____ Temp. _____Bottom sand, pebbles.Vegetation noneShore Paper birch, Salix

Air Temp. _____

Weather cloudy Time 4:25Capture seine, digging

Det. _____ Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y
O. sp.							
C. striatus							
C. bartonii laevis		1	1	1	1		
O. juvenilis				5	1		

Could this be real spumous?broad punctate areolaCannonsburg 140.3
134.7
5.6

No. 4-2261-8a, 8b

Date _____

HurricaneCo. & State Putnam Co, W. Va.

187

Loc. Trk. of Hurricane Small deep-valley stream, 7.1 mi W. of Putnam-Kanawha Co line on U.S. Hwy 10.Water clearFlow modWidth 4 8Depth 6"

pH _____

Temp. _____

Bottom rock, sand.Vegetation noneShore Carya, Platanus, Salix, Juniperus.

Air Temp. _____

Weather cloudyTime 6:25

Capture _____

Det. _____

Coll. _____

	♂I	♂II	♀	♂j	♀j	♀e	♀y
<u>C. robustus</u>					6		
<u>C. bartonii laevis?</u>		7	4	1	5		

(23)

~~40~~
 50460.7
 50011.7

 449.0

Putnam
 Kanawha Co line
 174.1
 2.7